

Title (en)
LOW LATENCY METADATA LOG

Title (de)
METADATENPROTOKOLL MIT NIEDRIGER LATENZZEIT

Title (fr)
JOURNAL DE MÉTADONNÉES À FAIBLE LATENCE

Publication
EP 3382560 A1 20181003 (EN)

Application
EP 18164917 A 20180329

Priority
US 201715475098 A 20170330

Abstract (en)
A storage server includes a first controller, a second controller and physical drives. The first controller receives a request to store data in a virtual block address (VBA) of a virtual drive, determines a physical block address (PBA) of a physical drive on which to store the data, and sends to the physical drive a command to store the data at the PBA. The first controller generates a first metadata update for a first metadata table associated with the virtual drive, wherein the first metadata update indicates a mapping of the VBA to the PBA. The first controller generates a second metadata update for a second metadata table that identifies statuses of PBAs, wherein the second metadata update indicates that the PBA is valid. The first controller writes an entry to a cache in a memory, the entry comprising the first metadata update and the second metadata update.

IPC 8 full level
G06F 12/0868 (2016.01); **G06F 12/02** (2006.01)

CPC (source: EP US)
G06F 3/0611 (2013.01 - US); **G06F 3/065** (2013.01 - US); **G06F 3/0665** (2013.01 - US); **G06F 3/0689** (2013.01 - US);
G06F 12/0808 (2013.01 - US); **G06F 12/0811** (2013.01 - US); **G06F 12/0868** (2013.01 - EP US); **G06F 12/128** (2013.01 - US);
G06F 12/0246 (2013.01 - EP US); **G06F 12/12** (2013.01 - EP US); **G06F 2212/283** (2013.01 - US); **G06F 2212/7201** (2013.01 - EP US);
G06F 2212/7203 (2013.01 - EP US); **G06F 2212/7207** (2013.01 - EP US); **G06F 2212/7208** (2013.01 - EP US)

Citation (applicant)
US 201715403011 A 20170110

Citation (search report)
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• [YA] US 2017046259 A1 20170216 - MCKEAN BRIAN [US], et al
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EP3647928A1; US10839093B2; US11562091B2; US10963413B2; US10831521B2; US11734040B2

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

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DOCDB simple family (application)
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